

?t sl/9/1

1/9/1

DIALOG(R) File 351:Derwent WPI

(c) 2001 Derwent Info Ltd. All rts. reserv.

010013160 **Image available**

WPI Acc No: 1994-280871/ 199435

XRPX Acc No: N94-221404

Movable contactor within electrical isolator switch - has contact at ends of pivot mounted arms with a electrical connection between arms and fixed terminals

Patent Assignee: FUJI ELECTRIC CO LTD (FJIE)

Inventor: KUBOYAMA K S; UCHIDA N; KUBOYAMA K

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4404706	A1	19940908	DE 4404706	A	19940215	199435 B
JP 7006681	A	19950110	JP 9435301	A	19940208	199511
US 5566818	A	19961022	US 94196473	A	19940215	199648
CN 1118928	A	19960320	CN 94108174	A	19940816	199743 N
KR 150272	B1	19981015	KR 942751	A	19940216	200026
JP 3206696	B2	20010910	JP 9435301	A	19940208	200155

Priority Applications (No Type Date): JP 9375362 A 19930309; JP 9350003 A 19930216; CN 94108174 A 19940816

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4404706	A1	12		H01H-077/10	
JP 7006681	A	6		H01H-073/02	
US 5566818	A	12		H01H-001/00	
CN 1118928	A			H01H-005/00	
KR 150272	B1			H01H-073/02	
JP 3206696	B2	7		H01H-073/02	Previous Publ. patent JP 7006681

Abstract (Basic): DE 4404706 A

An electrical isolator switch has fixed contact (9) and movable contacts (7) that are mounted at the ends of arms that are separated by spacers (13) and which are mounted on a pivot pin (3) that passes through holes in a support block. Axial force coil springs (11) located on the pin ensure that electrical contact is established between the contact carrying arms and the contact terminals (2). These extend to mechanically join with external connectors (24).

USE/ADVANTAGE - For installation within e.g. automatic cut-outs and earth-fault isolators. Eliminates need for flexible cable connections.

Dwg.2/9

Abstract (Equivalent): US 5566818 A

A movable contactor device in a circuit breaker, comprising:
two contactor elements made up of plate-like conductors, arranged in such a manner that said contactor elements are in parallel with each other and are movable independent of each other, for forming a movable contactor;

a movable contact made up of two separate parts which are respectively formed on first ends of said two contactor elements;

a current passing pin for rotatably coupling second ends of said two contactor elements to a connecting conductor, wherein said second ends are located opposite from said first ends; and

a pair of contact springs mounted on both end portions of said current passing pin, for pushing said contactor elements and said connecting conductor against one another while permitting a slidable rotation therebetween.

(Dwg.1/9)

Title Terms: MOVE; CONTACT; ELECTRIC; ISOLATE; SWITCH; CONTACT; END; PIVOT; MOUNT; ARM; ELECTRIC; CONNECT; ARM; FIX; TERMINAL

Derwent Class: X13

International Patent Class (Main): H01H-001/00; H01H-005/00; H01H-073/02; H01H-077/10

International Patent Class (Additional): H01H-071/00
File Segment: EPI
Manual Codes (EPI/S-X): X13-D02B
?s pn=DE 2128633
 S2 0 PN=DE 2128633
?s pn=Jp 9161641
 S3 1 PN=JP 9161641
?t s3/9/1

3/9/1

DIALOG(R)File 351:Derwent WPI
(c) 2001 Derwent Info Ltd. All rts. reserv.

011400143 **Image available**
WPI Acc No: 1997-378050/ 199735
XRPX Acc No: N97-314235

**Circuit breaker - has insulation barrier that covers coil part of spring
in mobile range of movable contacts**

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9161641	A	19970620	JP 95324587	A	19951213	199735 B

Priority Applications (No Type Date): JP 95324587 A 19951213

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9161641	A		8		

Abstract (Basic): JP 9161641 A

The circuit breaker has a cross bar (33) that supports rotatably a pair of movable contacts (21,22). A pair of stationary contacts (23,24) are provided opposite to the movable contact in a coil spring (35). A coil part (35a) of the coiled spring is inserted in the support shaft of the cross bar to carry out contact of the movable contacts to the stationary contacts at a predetermined pressure.

An insulation barrier is provided to cover the coil part of the spring in mobile range of the movable contacts.

ADVANTAGE - Prevents adhesion of molten metal on spring. Reduces mechanical damage. Enables easy insertion/removal of insulated barrier.

Dwg.1/13

Title Terms: CIRCUIT; BREAKER; INSULATE; BARRIER; COVER; COIL; PART; SPRING
; MOBILE; RANGE; MOVE; CONTACT

Derwent Class: X13

International Patent Class (Main): H01H-073/02

File Segment: EPI

Manual Codes (EPI/S-X): X13-D02A

?

Status: Signing Off...

logoff

11dec01 09:52:19 User262853 Session D253.2
Sub account: SET SUBACCOUNT 47181-00253
 \$10.73 0.456 DialUnits File351
 \$8.94 2 Type(s) in Format 9
 \$8.94 2 Types
\$19.67 Estimated cost File351
\$0.40 SPRNTNET
\$20.07 Estimated cost this search
\$20.13 Estimated total session cost 0.647 DialUnits

Status: Signed Off. (2 minutes)